

Department of Natural Resources

April 8, 2024

Phillip Courtney Rocky Mountain Materials and Asphalt, Inc. c/o Martin Marietta Materials, Inc. 1627 Cole Boulevard, Suite 200 Lakewood, CO 80401

Re: Red Canyon Quarry - File No. M-1985-043 Rocky Mountain Materials and Asphalt, Inc. **Surety Increase (SI-1) Surety increase to \$718,816.00**

Dear Phillip Courtney:

On April 8, 2024 the Division of Reclamation, Mining and Safety increased the current Financial Warranty for this permit to \$718,816.00, in accordance with Rule 4.2.1 of the Rules and Regulations. This is an increase of \$83,139.00.

Surety increase to \$718,816.00 as result of the 2024 inspection update.

On April 8, 2024, the Division ordered amendment of the current Financial Warranty or submittal of a new Financial Warranty reflecting the increase, within 60 days.

Please make arrangements with Sara M. Stevenson-Benn at the Division's Denver office for submittal of the financial warranty. Any other questions regarding completion, execution and/or submittal of financial warranty forms should also be directed to Sara M. Stevenson-Benn by telephone at (303) 866-3567 (8148), or by email at Sara.stevenson-benn@state.co.us.

The Permittee for this site may be scheduled for a Formal Board Hearing for possible revocation of the permit if the amount of any increased Financial Warranty has not been provided by June 7, 2024.

Bond Held:	\$635,677.00
Prior Liability:	\$635,677.00
Change in Liability:	\$83,139.00
Revised Liability:	\$718,816.00



Prior Permit Acreage:	675.00
Change in Permit Acreage:	0.00
Revised Permit Acreage:	675.00
Prior Affected Acreage:	110.00
Change in Affected Acreage:	0.00
Revised Affected Acreage:	110.00

If you have any questions, please contact me by telephone at (303) 866-3567 x 8176, or by email at Hunter.ridley@state.co.us.

Sincerely,

Hunter C. Ridley

Environmental Protection Specialist

M-GR-04

COST SUMMARY WORK

Т	Γask description:	2024 Inspection Update				
Site:	Red Canyon Quarry	Permit Action:	2024 Inspectio Update	n	Permit/Job	p#: <u>M1985043</u>
<u>P</u> 1	ROJECT IDENTIFIC	<u>CATION</u>				
	Task #: 00C Date: 3/6/2024 User: HR1	State: Colorado County: Fremont			Abbreviation: Filename:	None M043-00C
	Agency or organ	ization name: DRMS				
<u>T.</u>	ASK LIST (DIRECT	COSTS)				
Task	Description		Form Used	Fleet Size	Task Hours	Cost
01B	Replace Growth Med	dia on Benches	TRUCK1	1	248.57	\$92,280
02B	Replace Growth Med		SCRAPER1	1	240.02	\$228,604
03B	Reseed Quarry Benc		REVEGE	1	300.00	\$104,783
04B	Reseed Pit Floor		REVEGE	1	80.00	\$91,290
05B	Mob/demob Equipm	ent	MOBILIZE	1	15.00	\$19,782
06B		th Medium on Benches	DOZER	1	43.44	\$10,776
07B	Remove Scale		NA	1	40.00	\$3,000
08B	Remove Culverts		NA	1	40.00	\$2,000
			SUBTO	OTALS:	1007.03	\$552,515
<u>IN</u>	NDIRECT COSTS					
O'	VERHEAD AND PROF	IT:				
	Liability insura Performance be Job superintend Pr	ond: 1.05		ТОТАІ	$ \begin{aligned} \text{Total} &= & \$5 \\ \text{Total} &= & \$5 \\ \text{Total} &= & \$5 \end{aligned} $	11,161 5,801 32,768 55,252 104,982
		CONT	RACT AMOUNT			557,497
LI	EGAL - ENGINEERING	G - PROJECT MANAGEMENT	:			
	Financial warranty m	rocessing (legal/related costs):	\$500		Total = \$5	500
		nd/or contract/bid preparation:	4.25	_		27,944
		gement and/or administration:	5.00			32,875

CONTINGENCY: 0.00

Total = _ \$0

TOTAL INDIRECT COST = \$166,301

TOTAL BOND AMOUNT (direct + indirect) = ___\$718,816

TRUCK/LOADER TEAM WORK

Site: Red Can	yon Qua	arry	Permi	t Action	2024 Inspec Update		Permit/Job#:M	11985043
PROJECT	Γ IDEN	TIFICATION						
Task #:	01B		State:	Colorad	0	Ab	breviation: No	one
Date:	3/6/20	24		Fremont			Filename: 01	
User:	HR1							
Αg	gency or	organization nar	ne: DRM	IS				
HOURLY	EQUI	PMENT COST	<u>r</u>			Shift bas	is: 1 per day	
					uipment Descri			
	Т	ruck Loader Tea	m -Truck: -Loader:		ric 12-18 cy, 6x4 950H high lift	1		
	Suppo	ort Equipment -I		NA	93011 High Hit			
	11		ımp Area:	NA				
- -	Road Ma	aintenance –Mot		NA				
		-W2	ter Truck:	NA				
Cost Break	down:	Truck/Loa	ader Team		Support I	Equipment	Maintena	nce Equipment
		Truck	Loader		Load Area	Dump Area	Motor Grader	Water Truck
Utilization-mac	hine:	100		85	NA	NA	NA	NA
Ownership cost/	hour:	\$26.39	\$4	9.32	NA	NA	NA	NA
Operating cost/		\$64.76	\$3	3.83	NA	NA	NA	NA
%Utilization-	-	NA		0	NA	NA	NA	NA
ipper own. cost/		NA		0.00	NA	NA	NA	NA
Ripper op. cost/		NA		0.00	NA	NA	NA	NA
Operator cost/ Unit Subt		\$32.54 \$123.69		0.71	NA NA	NA NA	NA NA	NA NA
Number of U		•	\$12	3.86	NA 0	NA 0	NA 0	NA
		Work:	\$271.24	1		\$0.00	Maint:	\$0.00
Group Subt	otais:	Work:	\$371.24		Support:	\$0.00	Maint:	\$0.00
Total work	team cos	st/hour: \$371.24	<u> </u>					
MATERL	AL QU	<u>ANTITIES</u>						
Initial	volume:	56,467		CCY	Swell	factor: 1.215		
	volume:		7	LCY	Swen	1.213		
	Soi	arce of estimated	volume:	2001/4	M-01 CIRCES	Worksheet		
		of estimated swe			ndbook	vv orksheet		
		Material Purch	_	\$0.00				
		То	otal Cost: _	\$0.00				
HOURLY	Y PRO	DUCTION						
Truck Cap								
		rht) Racic						
Truck Paylo	au (weig	giit j Dasis.						
	aterial waterial waterial	veight: 3,300			Pounds/LCY Rock, 25% Earth			

Payload Capacity:	15.24	LCY				
Truck Bed (volume) Basis:						
Struck Volume:	12.00	LCY				
Heaped Volume:	18.00	LCY				
Average Volume:	15.00	LCY				
Adjusted Volume:	15.24	LCY				
Final	Truck Volume	e Based on Number of I	Loader Passes:	11.93	LCY	
Loading Tool Capacity			Bucke	et Size Class: N	JA	
Rated Capacity:	4.300	LCY (heaped)	Buche		17.1	_
Bucket Fill Factor:	0.925	Loose material -	/8" to 3/8" (90 -	95%) 0.925		-
Adjusted Capacity:	3.978	LCY		<i>y</i> = 1, 0, 0, 0		_
Job Condition Corrections		Site	Altitude (ft.): 72	200 feet		
Job Condition Corrections				<u> </u>		
Altitude Adj:	1.000	Loader 1.000	Source (CAT HB)			
Job Efficiency:	0.830	0.830	(CAT HB)			
Job Efficiency.	0.030	0.030	(CAT IID)			
Net Correction:	0.830	0.830				
Loading Tool Cycle Time:	ı	r er zemming reerr mee	es Required to F	III Truck.		Jasses
Excavators and Front Shove Machine Cycle Time v	e <u>ls:</u> vs. Job Conditio	on Rating: NA	es required to 1			Jasses
Excavators and Front Shove Machine Cycle Time v Selected Value	els: vs. Job Conditic within this Bas	on Rating: NA NA NA	es required to F		, j	Jasses
Excavators and Front Shove Machine Cycle Time v	els: es. Job Conditic within this Bas Material Descr	on Rating: NA NA NA	es required to F		<u> </u>	Jasses
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders –	els: es. Job Conditic within this Bas Material Descr :	on Rating: NA NA NA		Dump:0.100		Jasses
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.)	els: ys. Job Condition within this Bas Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript	on Rating: NA ic Rating: NA ic Rating: NA ic NA		Dump: 0.100		
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA	els: ys. Job Condition within this Bas Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript Material Descript	on Rating: NA ic Rating: NA ic Rating: NA ic NA		Dump: 0.100	0	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material:	els: ys. Job Condition within this Bas Material Description: - Unadjusted Bas Mixed mater	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time	e (load, dump, ma	Dump: 0.100 aneuver): 0 Factor (min.) 0.020	0 0.500 minu	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders — Cycle Time Elements (min.) Load: NA Wheel and Track Loaders — Cycle Time Factors Material: Stockpile:	els: ys. Job Condition within this Bas Material Description: - Unadjusted Bas Mixed mater Conveyor or	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time ial 0.02 dozer piled 10 ft. high	e (load, dump, ma	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000	0.500 minu Source (Cat HB) (Cat HB)	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	els: ys. Job Condition within this Base Material Description: Unadjusted Base Mixed mater Conveyor or Common ow	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time rial 0.02 dozer piled 10 ft. high rership of trucks and lo	e (load, dump, ma	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040	0.500 minu Source (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: ys. Job Condition within this Bas Material Description: Unadjusted Base Mixed mater Conveyor or Common ow Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time ial 0.02 dozer piled 10 ft. high rnership of trucks and le cration -0.04	e (load, dump, ma	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040	0.500 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership:	els: ys. Job Condition within this Base Material Description: Unadjusted Base Mixed mater Conveyor or Common ow	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time ial 0.02 dozer piled 10 ft. high rership of trucks and le cration -0.04 get 0.00	e (load, dump, mand up 0.00 paders -0.04	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	0.500 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: ys. Job Condition within this Bas Material Description: Unadjusted Base Mixed mater Conveyor or Common ow Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time dial 0.02 dozer piled 10 ft. high rership of trucks and logation -0.04 get 0.00 Net Cycle Time	and up 0.00 paders -0.04 Adjustment:	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060	Source (Cat HB) minutes	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: ys. Job Condition within this Bas Material Description: Unadjusted Base Mixed mater Conveyor or Common ow Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time ial 0.02 dozer piled 10 ft. high rership of trucks and le cration -0.04 get 0.00	and up 0.00 paders -0.04 Adjustment: Cycle Time:	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000	0.500 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB)	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders — Cycle Time Elements (min.) Load: NA Wheel and Track Loaders — Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target:	els: ys. Job Condition within this Bas Material Description: Unadjusted Base Mixed mater Conveyor or Common ow Constant ope	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time rial 0.02 dozer piled 10 ft. high rership of trucks and le ration -0.04 get 0.00 Net Cycle Time Adjusted Loader	and up 0.00 paders -0.04 Adjustment: Cycle Time:	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.440	0.500 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders – Cycle Time Elements (min.) Load: NA Wheel and Track Loaders – Cycle Time Factors Material: Stockpile: Truck Ownership: Operation:	els: ys. Job Condition within this Bas Material Description: - Unadjusted Bas Mixed mater Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time rial 0.02 dozer piled 10 ft. high rership of trucks and le ration -0.04 get 0.00 Net Cycle Time Adjusted Loader	and up 0.00 paders -0.04 Adjustment: Cycle Time: ne per Truck:	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.440	0.500 minu Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes	utes
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time:	els: ys. Job Condition within this Bas Material Describe Unadjusted Bas Mixed mater Conveyor or Common ow Constant ope Nominal targ	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time rial 0.02 dozer piled 10 ft. high rership of trucks and location -0.04 get 0.00 Net Cycle Time Adjusted Loader Net Load Tin	Adjusted f	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.440 0.980	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes	utes
Excavators and Front Shove Machine Cycle Time v Selected Value Track Loaders Cycle Time Elements (min.) Load: NA Wheel and Track Loaders Cycle Time Factors Material: Stockpile: Truck Ownership: Operation: Dump Target: Truck Cycle Time: Truck Exchange Time	els: ys. Job Condition within this Bas Material Description: Unadjusted Base Mixed mater Conveyor or Common ow Constant ope Nominal targ e: 0.50 e: 0.980	on Rating: NA ic Rating: NA ription: NA Maneuver: NA asic Loader Cycle Time rial 0.02 dozer piled 10 ft. high rership of trucks and location -0.04 get 0.00 Net Cycle Time Adjusted Loader Net Load Tin Minutes	Adjusted for Adjus	Dump: 0.100 aneuver): 0 Factor (min.) 0.020 0.000 -0.040 -0.040 0.000 -0.060 0.440 0.980 or site altitude:	Source (Cat HB) (Cat HB) (Cat HB) (Cat HB) (Cat HB) minutes minutes minutes minutes	utes

<u>Truck Travel (Haul & Return) Time:</u> penetration 5.0

Road Condition: Rutted dirt, little maintenance, no water, 2" tire

Haul Route:

Seg#	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	20.00	5.00	25.00	406	1.480

Haul Time: 1.480 minutes

Return Route:

Seg #	Haul Distance (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)	Velocity (fpm)	Travel Time (min)
1	600.00	-20.00	5.00	-15.00	1749	0.446

Return Time: 0.446 minutes
Total Truck Cycle Time: 4.306 minutes

Loading Tool unit

Production 483.75 LCY/Hour Adjusted for job efficiency: 401.51 LCY/Hour

Truck Unit Production

166.27 LCY/Hour Adjusted for job efficiency: 138.00 LCY/Hour

Optimal No. of Trucks: 3 Truck(s) Selected Number of Trucks: 2 Truck(s)

Adjusted hourly truck team production: 276.00 LCY/Hour Adjusted single truck/loader team production: 276.00 LCY/Hour Adjusted multiple truck/loader team production: 276.00 LCY/Hour

JOB TIME AND COST

Fleet size: _____1 Team(s) Total job time: _____248.57 Hours

Unit cost: \$1.345 /LCY Total job cost: **\$92,280**

Rated Payload: 55,200 pounds

SCRAPER TEAM WORK

Task descrip	r		rowth Media on I		_			
Site: Red Can	yon Qua	rry	Permit Action:	2024 Inspection Update		mit/Job#:	M1985	043
PROJECT	Γ IDEN	<u> </u>						
Task #:	02B		State: Colorado		Abbre	viation:	None	
Date: User:	3/6/202 HR1	24 Co	unty: Fremont		Fi	ename:	02B	
Ag	gency or o	organization name	DRMS					
HOURLY	EQUIP	MENT_		COSTS	hift basis: 1 per c	la <u>y</u>		
			Equipme	ent Description				
		-2	Scraper: Cat 623					
			-Dozer: NA					
	Suppo	rt Equipment -Loa						
-	Road Ma	intenance –Motor	p Area: NA Grader: NA					
	Road Ma		Truck: NA					
Cost Break	down:	Scraper Wo		Support Equi	+			Equipment Water Truck
		Scraper	Dozer	Load Area	Dump Area	Motor (irader	Water Truck
%Utilization-m	nachine:	100	NA	NA	NA		NA	NA
Ownership co	st/hour:	\$252.73	NA	NA	NA		NA	NA
Operating co	st/hour:	\$192.59	NA	NA	NA		NA	NA
%Utilization	-ripper:	NA	NA	NA	NA		NA	NA
Ripper own. co	st/hour:	NA	NA	NA	NA		NA	NA
Ripper op. co	st/hour:	NA	NA	NA	NA		NA	NA
Operator co	st/hour:	\$30.90	NA	NA	NA		NA	NA
Unit Su	ıbtotals:	\$476.22	NA	NA	NA		NA	NA
Number o	f Units:	2	0	0	0		0	0
Group Su	ıbtotals:	Work:	\$952.44	Support:	\$0.00		Maint:	\$0.00
Total work	team cost	/hour: \$952.44						
MATERIA	AL OUA	NTITIES						
' <u>'</u>			CCV	G 11 C	1.015			
	volume:	121,000 147,015	CCY LCY	Swell fac	tor: 1.215			
		rce of estimated vo		M-01 CIRCES Wo	orksheet			
		of estimated swell			STRUMENT .			
HOURLY	PRODU	<u>UCTION</u>						
				Scraper B	owl (volume) Bas	is:		
Material	weight:	3,300 lbs/LCY		Struck	Volume: _18.00		LC	CY
Material desc	cription:	Decomposed roc	k - 75% Rock,	Heaped	Volume: 23.00		LC	CY

Average Volume: 20.50

LCY

Fleet size: 1 Team(s)

Unit cost: \$1.555 /LCY

Scraper \	Worksheet Con	t´d		Task #	02B			Page 2 of 2
Payload	d Capacity: 1	6.73 LCY	7		Adjusted Capac	eity: 1	6.73	LCY
Cycle Ti	me:							
	Loading Time: er and Spread T	ime:			<u>0.90</u> Minutes <u>0.70</u> Minutes			
Job Cond	lition Correctio	<u>n:</u>					Site Alti	tude: 7200 feet
		Scr	aper	Push Doz	er Sourc	ee	7	
	Altitude Adj:		000	NA	(CAT H		-	
	ob Efficiency:		830	NA	(CAT H		1	
N	et Correction:	0.	830	NA				
Travel Ti	ime:							
	Road Condition	n: Rutted	d dirt, little	maintenance, n	no water, 2" tire pene	tration 5	5.0	
Haul Rou	ıte•							
Seg #	Haul Distan	ce (Ft)	Grade (%)	Roll. Res	Total Res	Veloci	ity (fpm)	Travel Time (min)
1	600.00		2.00	5.00	7.00	944		0.69
	-		·		Haul Time:	0.	69 1	ninutes
Return R	1							
Seg #	Haul Distan	ce (Ft)	Grade (%)	Roll. Res (%)	Total Res (%)		ity (fpm)	Travel Time (min)
1	600.00		-2.00	5.00	3.00	2666		0.43
					Return Time:	0.	43 1	minutes
					per team cycle time:		2.72	minutes
					d for job conditions:	3	306.26	LCY/Hour
					Number of Scrapers:		2	_ Scraper(s)
) hourly production:		512.51	LCY/Hour
	A	djusted m	nultiple scra	iper team (fleet	t) hourly production:		512.51	LCY/Hour
Ontimo	Unadjusted I Number of Sc			ır: <u>368.98</u>	LCY/Hour			
Ориша	i ivuilloel ol Sc	rapers pe	i pusii uoze	J				
JOB TI	ME AND CO	<u>OST</u>						

Total job time: 240.02 Hours

Total job cost: **\$228,604**

REVEGETATION WORK

Red Canyon Quarry	Permit Ac	tion: 2024 Upda	Inspection	Permit/Job#	: M1985043
ROJECT IDENTIFIC	CATION				
Task #: 03B Date: 3/6/2024 User: HR1 Agency or organ	State: Color County: Freme				None 03B
<u>ERTILIZING</u>					
laterials		Timita /			
Description		Units / Acre	Unit	Cost / Unit	Cost /Acre
Ammonium nitrate, 33-	-0-0	110.00	pound	\$0.62	\$68.56
Triple superphosphate,	0-46-0	90.00	pound	\$0.89	\$80.10
				Total Fertilizer Materials Cost/Acre	\$148.66
pplication					
Description					Cost /Acre
Hand spread (MEANS	32 01 90.13 0100)				\$686.07
		Total	Fertilizer Ap	plication Cost/Acre	\$686.07
TILLING					
Description					Cost /Acre
					\$
			TF - 4	al Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.60	9.79	\$9.59
Arizona Fescue - Redondo	1.00	11.48	\$9.25
Indian Ricegrass - Native	1.60	5.18	\$10.40
Little Bluestem - Native	1.40	8.36	\$18.99
Sideoats Grama - Butte	1.80	5.91	\$16.20
Prairie Clover, White	1.20	10.17	\$47.70
			\$

	Totals Seed Mix	\$
pplication		
Description		Cost /Acre
		\$

Total Seed Application Cost/Acre

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description	Cost /Acre
	\$
Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
Pine, Ponderosa	236	Tubling, 3 cu. in. container (MEANS)	\$1.26	\$0.00	\$297.36
Totals Nursery Stock Cost / Acre \$297.36					

JOB TIME AND COST

 No. of Acres:
 45
 Cost /Acre:
 \$1,724.83

 Estimated Failure Rate:
 35%
 Cost /Acre*:
 \$1,724.83

*Selected Replanting Work Items: FERTILIZING, SEEDING, NURSERY

Initial Job Cost: \$77,617.35

Reseeding Job Cost: \$27,166.07

Total Job Cost: \$104,783

Job Hours: 300.00

REVEGETATION WORK

Task description:	Reseed Pit Floor					
Red Canyon Quarry	Permit Act	Permit Action: 2024 Inspection Update		Permit/Job#: M1985043		
ROJECT IDENTIFIC	CATION					
Task #: 04B	State: Colora	ado		Abbreviation:	None	
Date: 3/6/2024	County: Fremo	ont		Filename:	04B	
User: HR1				_		
ERTILIZING Materials						
Description		Units /	Unit	Cost / Unit	Cost /Acre	
Ammonium nitrate, 33	-0-0	Acre 110.00	pound	\$0.62	\$68.56	
Triple superphosphate,		90.00	pound	\$0.89	\$80.10	
		2 2.30		Total Fertilizer Materials		

Application

Description		Cost /Acre
Hand spread (MEANS 32 01 90.13 0100)		\$686.07
,	Total Fertilizer Application Cost/Acre	\$686.07

TILLING

Description	Cost /Acre
	\$
Total Tilling Cost/Acre	\$0.00

SEEDING

Seed Mix	Rate – PLS LBS / Acre	Seeds per SQ. FT	Cost /Acre
Blue Grama - Hachita	0.30	4.90	\$4.79
Arizona Fescue - Redondo	0.50	5.74	\$4.63
Indian Ricegrass - Native	0.80	2.59	\$5.20
Little Bluestem - Native	0.70	4.18	\$9.50
Sideoats Grama - Butte	0.90	2.95	\$8.10
Prairie Clover, White	0.60	5.08	\$23.85
Sideoats Grama - Vaughn	0.90	2.95	\$7.54
Western Wheatgrass - Arriba	1.60	4.04	\$10.40

Cost/Acre

\$148.66

Vetch, American	0.60	0.27	\$59.96
Needlegrass, Green - Lodorm	1.00	4.16	\$11.78
Prairie Junegrass	0.10	5.32	\$2.60
Winter Fat	0.50	1.27	\$10.25
Yarrow, Western	0.10	6.08	\$4.18
Totals Seed Mix	8.60	49.53	\$162.76

Application

Description		Cost /Acre
Drill Seeding (DRMS Survey Cost)		\$232.00
Tota	l Seed Application Cost/Acre	\$232.00

MULCHING and MISCELLANEOUS

Materials

Description	Units / Acre	Unit	Cost / Unit	Cost /Acre
			\$	\$
Total Mulch Materials Cost/Acre				\$0.00

Application

Description		Cost /Acre
		\$
	Total Mulch Application Cost/Acre	\$0.00

NURSERY STOCK PLANTING

Common Name	No / Acre	Type and Size	Planting Cost	Fertilizer Pellet Cost	Cost /Acre
					\$
Totals Nursery Stock Cost / Acre					\$0.00

JOB TIME AND COST

 No. of Acres:
 55
 Cost /Acre:
 \$1,229.49

 Estimated Failure Rate:
 35%
 Cost /Acre*:
 \$1,229.49

*Selected Replanting Work Items: FERTILIZING,SEEDING

Initial Job Cost: \$67,621.95

Reseeding Job Cost: \$23,667.68

Total Job Cost: \$91,290

80.00

EQUIPMENT MOBILIZATION/DEMOBILIZATION

Red Can	yon Quarry	Per	rmit Action:	2024 Inspection Update	Permit/Jol	o#: <u>M1985043</u>
DOIFCT	IDENTIFIC	CATION				
KOJECI	IDE:\\III	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Task #:	05B	State:	Colorado		Abbreviation:	None
			Colorado Fremont		Abbreviation: Filename:	None 05B

EQUIPMENT TRANSPORT RIG COST

Shift basis: 1 per day
Cost Data Source: CRG Data

Truck Tractor Description: GENERIC ON-HIGHWAY TRUCK TRACTOR, 6X4, DIESEL POWERED,

400 HP (2ND HALF, 2006)

Truck Trailer Description: GENERIC FOLDING GOOSENECK, DROP DECK EQUIPMENT

TRAILER (25T, 50T, AND 100T)

Cost Breakdown:

Available Rig Capacities	0-25 Tons	26-50 Tons	51+ Tons
Ownership Cost/Hour:	\$20.26	\$36.04	\$47.05
Operating Cost/Hour:	\$39.51	\$76.08	\$82.85
Operator Cost/Hour:	\$22.52	\$22.52	\$22.52
Helper Cost/Hour:	\$0.00	\$23.53	\$23.53
Total Unit Cost/Hour:	\$82.29	\$158.17	\$175.95

NON ROADABLE EQUIPMENT:

Machine	Weight/	Owner ship	Haul Rig	Fleet	Haul Trip	Return Trip	DOT Permit
Description	Unit	Cost/hr/ unit	Cost/hr/uni	Size	Cost/hr/	Cost/hr/ fleet	Cost/ fleet
	(TONS)		t		fleet		
Cat D7R DS XR	32.01	\$114.76	\$158.17	1	\$272.93	\$158.17	\$250.00
Series II							
Cat 623G	41.35	\$252.73	\$158.17	2	\$821.80	\$316.34	\$500.00
CAT 950H high	20.13	\$49.32	\$82.29	1	\$131.61	\$82.29	\$250.00
lift							

Subtotals: \$1,226.34 \$556.80 \$1,000.00

ROADABLE EQUIPMENT:

Machine Description	Total Cost/hr/ unit	Fleet Size	Haul Trip Cost/hr/ fleet	Return Trip Cost/hr/ fleet
Generic 12-18 cy, 6x4	\$123.06	2	\$246.12	\$246.12
Drill/Broadcast Seeder with	\$14.81	1	\$14.81	\$14.81
Tractor				

C-1.4.4.1	Ø2 (0 0 2	Ø2 (0 O 2	Ī
Subtotals	\$260.93	\$260.93	

EQUIPMENT HAUL DISTANCE and Time

Nearest Major City or Town within project area region:

Total one-way travel distance:

Average Travel Speed:

CAÑON CITY

miles

40.00

mph

Total Non-Roadable Mob/Demob Cost *
 '* two round trips with haul rig:
Total Roadable Mob/Demob Cost **
 ** one round trip, no haul rig:

\$19,390.79

\$391.40

Transportation Cycle Time:

	Non-	
	Roadable	Roadable
	Equipment	Equipment
Haul Time (Hours):	0.75	0.75
Return Time (Hours):	0.75	0.75
Loading Time (Hours):	3.00	NA
Unloading Time (Hours):	3.00	NA
Subtotals:	7.50	1.50

JOB TIME AND COST

Total job cost: 15.00 Hours
Total job cost: \$19,782

BULLDOZER WORK

: Red Canyon Quarry	<u>y</u>	Permit Action:	2024 Inspection Update	Permit/Job#:M1985043
PROJECT IDENTI	FICATION PROPERTY OF THE PROPE			
Task #: 06B	S	tate: Colorado		Abbreviation: None
Date: $\frac{3/6/2024}{}$		inty: Fremont		Filename: 06B
User: HR1		, <u> </u>		
Agency or org	ganization name:	DRMS		
HOURLY EQUIPM	IENT COST			
Basic Machine: C	at D7R DS XR S	Series II		
Horsepower: 24	40		_	
	emi-Universal			
Attachment: N	A		<u> </u>	
	per day			
Data Source: (0	CRG)			
Cost Breakdown:				
			<u>Utilization %</u>	
Ownership Cost/Hour		\$114.76	NA	
Operating Cost/Hour		\$91.98	100	
Ripper own. Cost/Hour		\$0.00	NA	
Ripper op. Cost/Hour		\$0.00	0	
Operator Cost/Hour	:	\$41.30	NA	
MATERIAL QUAN Initial Volume: 28	(TITIES ,000			
	000			
	,000 LCY			
Loose volume: 28	,000 LC 1			
Source of estimated vol	ume: 200	1 AM-01 CIRCE	S Worksheet	
	ume: 200	1 AM-01 CIRCE Handbook	S Worksheet	
Source of estimated vol	ume: 200 ell factor: Cat		S Worksheet	
Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance:	ume: 200 ell factor: Cat CTION 100 fe	Handbook eet	S Worksheet	
Source of estimated vol Source of estimated swe	ume: 200 ell factor: Cat CTION 100 fe	Handbook	S Worksheet	
Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance:	ume: 200 cell factor: Cat CTION 100 fe 714.3	Handbook eet		
Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d	ume: 200 cell factor: Cat CTION 100 fc 714.3 description: L	Handbook eet LCY/hr		
Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod	ume: 200 cell factor: Cat CTION 100 fc 714.3 description: L	Handbook eet LCY/hr		
Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient:	200 Cat	Handbook eet LCY/hr .oose stockpile 1.2		
Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude:	ume:	Handbook eet LCY/hr .oose stockpile 1.2		
Source of estimated vol Source of estimated swo HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description: Job Condition Correction	ume: 200 ell factor: Cat CTION 100 for 714.3 escription: L 0 % 7,200 feet 1,600 lbs/LC Top Soil on Factor	Handbook eet LCY/hr coose stockpile 1.2	2 Source	
Source of estimated vol Source of estimated swe HOURLY PRODUC Average push distance: Unadjusted hourly prod Materials consistency d Average push gradient: Average site altitude: Material weight: Weight description:	ume: 200 ell factor: Cat CTION 100 fe 714.3 escription: L 0 % 7,200 feet 1,600 lbs/LC Top Soil on Factor or Skill:	Handbook eet LCY/hr .oose stockpile 1.2	2	

Visibility:	1.000	(AVG.)
Job efficiency:	0.830	(1 SHIFT/DAY)
Spoil pile:	0.700	(FND-MF)
Push gradient:	1.000	(CAT HB)
Altitude:	1.000	(CAT HB)
Material Weight:	1.438	(CAT HB)
Blade type:	1.000	(PAT)

Net correction: 0.9023

Adjusted unit production: 644.51 LCY/hr
Adjusted fleet production: 644.51 LCY/hr

JOB TIME AND COST

Fleet size: 1 Dozer(s)
Unit cost: \$0.385/LCY

Total job time: 43.44 Hours
Total job cost: \$10,776